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Amended

high voltage supply 44; and energy storage and trigger means 46. A coded wireless signal from the control at the surface will be received by wireless receiver 38, the digital signal processed by the associated micro processor based logic 40 and, if the code designates that the respective explosive charge is to be detonated, sends a signal to the trigger means 46 which will supply high voltage to explosive bridge wire 42 to trigger detonation of the respective explosive charge.--

In the claims:

Please amend claims 1, 5, 6, 8, and 12 to 14 as follows:

1.(Amended) A detonation device for selectively detonating a designated explosive charge located downhole in a well bore, said device comprising:

a wireless receiver;

microprocessor and control means connected to said wireless receiver;

an explosive bridge wire;

high voltage supply means; and

energy storage and trigger means, whereby a coded signal received by said wireless receiver is decoded by the micro processor and, if the code designates that the respective explosive charge is to be detonated, sends a signal to the trigger means which will supply high voltage to explosive bridge wire which will create sufficient energy to initiate detonation of the respective explosive charge.

5. (Amended) The detonation device according to claim 1 wherein the coded signal does not transmit the power to initiate detonation of the explosive charge thereby reducing the risk of accidental detonation of the explosive charge.

6. (Amended) The detonation device according to claim 1 wherein said explosive bridge wire comprises:

circuit board having an aperture therein;

an electrical circuit formed on said circuit board with a portion of the electrical circuit overlying said aperture forming a bridge, said bridge having dimensions smaller than the rest of the electrical circuit so that, upon application of power to the electrical circuit, the bridge will flash vaporize causing detonation of the nearby explosive charge.

8. (Amended) A method for selectively detonating a designated explosive charge located downhole in a well bore, comprising the steps of

providing a detonating device having a wireless receiver, microprocessor and control means connected to said wireless receiver, at least one explosive bridge wire, high voltage supply means, and energy storage and trigger means; and

transmitting a coded signal to said wireless receiver to be decoded by the micro processor and, if the code designates that the respective explosive charge is to be detonated, sends a signal to the trigger means which supplies high voltage to explosive bridge wire causing it to substantially instantly vaporize creating sufficient energy to initiate detonation of the respective explosive charge.

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12. (Amended) The method according to claim 8 wherein the coded signal does not transmit the power to initiate detonation of the explosive charge thereby reducing the risk of accidental detonation of the explosive charge.

13. (Amended) The method according to claim 8 wherein said explosive bridge wire comprises:

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circuit board having an aperture therein;

an electrical circuit formed on said circuit board with a portion of the electrical circuit overlying said aperture forming a bridge, said bridge having dimensions smaller than the rest of the electrical circuit so that, upon application of power to the electrical circuit, the bridge will flash vaporize causing detonation of the nearby explosive charge.

14. (Amended) The method according to claim 8 wherein said microprocessor includes digital signal processing logic.

REMARKS.

The objection to the Information Disclosure Statement has been noted. The PCT application noted on page 2 line 19 is the correct identification for this reference.

The objections to the drawings have been noted. Attached hereto are prints of the drawings showing proposed corrections thereon in red ink.

The objection to the specification has been noted. Appropriate amendments have been made to the paragraphs beginning on line 6 of page 7, line 5 of page 8, and line 8 of page 10. It is submitted that all of the Examiner's objections have been overcome by these amendments.